

WHAT IS CLAIMED IS:

5 1. A water-washable lithographic composition, the composition comprising:

- 10 (a) a rosin-based resin;
 (b) an alcohol solvent;
 (c) a pigment;
 (d) an acid neutralizing agent;
 (e) a plasticizer; and
 (f) a latex emulsion.

15 2. The composition of claim 1 wherein the rosin-based resin has an acid number of about 20 to about 250.

20 3. The composition of claim 1 wherein the rosin-based resin is selected from the group consisting of phenolic-, maleic-, fumaric-, pentaerythritol-, hydrocarbon-, and/or mixtures of these groups.

 4. The composition of claim 1 wherein the rosin-based resin is selected from the group consisting of dimerized and polymerized rosins, terpenes, rosin resins, rosin salts, tall oil resins, and mixtures thereof.

25 5. The composition of claim 1 wherein the rosin-based resin is about 0 wt.% to about 40 wt. %.

 6. The composition of claim 5 wherein the rosin-based resin is about 10 wt. % to about 35 wt. %.

30 7. The composition of claim 6 wherein the rosin-based resin is present is about 15 wt.% to about 25 wt. %.

35 8. The composition of claim 1 wherein the alcohol solvent is selected from the group consisting of ethanols, propanols, butanols, pentanols, hexanols,

5 octanols, nonanols, decanols, undecanols, dodecanols, tridecanols, glycols, and glycolethers.

9. The composition of claim 1 wherein the alcohol solvent is about 0 wt. % to about 35 wt. %.

10

10. The composition of claim 1, wherein the pigment is selected from the group consisting of presscake, dry pigment, dyes, flushes, pigment dispersions, and combinations thereof.

15

11. The composition of claim 1 wherein the amount of pigment present is in the range of about 1 parts pigment by weight to about 8 parts rosin-based resin by weight to about 1 parts pigment by weight to about 1 parts rosin-based resin by weight (about 1:8 to about 1:1) based on total weight of the composition.

20

12. The composition of claim 1 wherein the acid neutralizing agent is selected from the group consisting of primary amines, secondary amines, and tertiary amines.

25

13. The composition of claim 12 wherein the amine is selected from the group consisting of monoethanolamines, diethanolamines, dimethylethanolamine, methyldiethanolamine, triethanolamine, N-dimethylhexylamine, polyethylene imines, propylene diamines, hexamethylene diamines, dibutyl amines, diethylene triamines, and mixtures thereof.

30

14. The composition of claim 1 wherein the acid neutralizing agent is about 5 wt.% to about 15 wt. %.

35

15. The composition of claim 1 wherein the plasticizer is selected from the group consisting of tallate esters, phthallate esters, rosin esters, alkyds, polyesters, fatty acid esters, and mixtures thereof.

5 16. The composition of claim 1 wherein the plasticizer is about 0 wt. %
to about 40 wt. %.

 17. The composition of claim 1 wherein the thermoplastic latex emulsion
is selected from the group consisting of modified acrylics, modified methacrylics,
10 modified styrene, modified vinyls, modified styreneacrylics, and mixtures thereof.

 18. The composition of claim 1 wherein the thermoplastic latex
emulsion is about 0 wt. % to about 40 wt. %.

15 19. A dry lithographic printing ink comprising the composition of claim 1.

 20. A wet lithographic printing ink comprising the composition of claim 1.